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Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the

application:

Listing of Claims:

1. Cancelled

2. (Currently Amended) A sustained-release drug delivery device comprising a

structural element and a drug reservoir, wherein the drug reservoir comprises a coating

applied to the surface of the structural element and wherein the coating comprises an

inorganic mesoporous oxide with The sustained-release drug delivery device of claim 1 wherein the mesoporous oxide possesses substantially continuously interconnected

channels.

(Original) The sustained-release drug delivery device of claim 2 wherein the

majority of the interconnected channels have a diameter of between 1-100 nm.

4. (Original) The sustained-release drug delivery device of claim 3 wherein the

majority of the interconnected channels have a diameter of between 2 nm and 30 nm.

5. (Original) The sustained-release drug delivery device of claim 2 wherein the

mesoporous oxide is a triblock copolymer-template-based mesoporous oxide.

6. (Original) The sustained-release drug delivery device of claim 5 wherein the mesoporous oxide is selected from the group consisting of: an oxide of silicon and an

oxide of titanium.

7. (Original) The sustained-release drug delivery device of claim 2 wherein the

interior surfaces of the interconnected channels are coated with an agent that modifies

hydrophobicity or charge.

8. (Original) The sustained-release drug delivery device of claim 7 wherein agent

that modifies hydrophobicity or charge comprises a silane coupling agent.

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9. (Original) The sustained-release drug delivery device of claim 2 wherein the drug reservoir coating is applied to the surface of the structural element by a method selected from the group consisting of: dip-coating, spray coating, spin-coating and painting.

- (Original) The sustained-release drug delivery device of claim 2 further comprising a drug loaded within the drug reservoir.
- (Original) The sustained-release drug delivery device of claim 10 adapted for delivery of the drug for a period of at least 3 days.
- 12. (Original) The sustained-release drug delivery device of claim 11 adapted for delivery of the drug for a period of at least 7 days.
- 13. (Original) The sustained-release drug delivery device of claim 12 adapted for delivery of the drug for a period of at least 30 days.
  - 14. (Cancelled)
- 15. (Original) The sustained-release drug delivery device of claim 10 wherein the drug is an anti-restenotic drug.
- 16. (Original) The sustained-release drug delivery device of claim 15 wherein the drug is a taxol-derived drug.
- 17. (Original) The sustained-release drug delivery device of claim 16 wherein the drug is selected from the group consisting of PACLITAXEL, SIROLIMUS, and TACROLIMUS.
- 18. (Original) The sustained-release drug delivery device of claim 15 wherein the drug delivery device is adapted for implantation into the vascular system of a subject.
- 19. (Original) The sustained-release drug delivery device of claim 18 wherein the drug delivery device comprises a stent.

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20. (Currently Amended) The sustained-release drug delivery device of claim 19 wherein the total amount of drug loaded within the drug reservoir is between  $\frac{60}{1}$  and

300 1,000 micrograms per stent.

21. (Original) The sustained-release drug delivery device of claim 2 wherein the drug is selected from the group consisting of: an anti-inflammatory agent, an antimicrobial agent, and antineoplastic agent, and angiogenic agent, an anti-angiogenic agent, a thrombolytic agent, an antihypertensive agent, an anti-arrhythmic agent, a calcium channel blocker, a cholesterol-lowering agent, a psychoactive agent, an anti-depressive agent, an anti-seizure agent, a contraceptives, an analgesics, a bone growth

factor, a bone remodeling factor, a neurotransmitter, and an opiate antagonist.

22. - 34. (Cancelled)

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